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conic. with inflated cells. mouth broad, flaring and bordered by 6-9 rows of smaller dark-red denser cells; peristome deeply inserted with a short pale-yellow inflated hyaline preperistome; teeth 16, red, papillose, short, immersed for fully half their length, rather distant, slender and fragile, incurved when moist and irregularly thickened and split; neck stomatose, tapering, calyptra cucullate, spores .013-.016 mm. slightly papillose, maturing in October.

Origin: Unknown.

Habitat: On wet stones and rocks in greenhouses in the vicinity of Philadelphia, Penn. Collected by Dr. A. F. K. Krout, October 2nd, 1909.
New York Botanical Garden.

LICHENS OF THE MOUNT MONADNOCK REGION, N. H., No. 5.

(See BRYOLOGIST, July, 1909. Vol. XII, No. 4.

By R. HEBER HOWE, Jr.

Genus: *Bæomyces* Pers. DC.

66. *Bæomyces roseus* Pers. Two fertile specimens, thus labelled, belong here.

Genus: *Stereocaulon* Schreb.

67. *Stereocaulon paschale* (L.) Fr. Three fertile specimens belong here. One was labelled thus, the others "*tomentosum*" and "*denudatum*" respectively. Abundant at Fitzwilliam.
68. *Stereocaulon tomentosum* (Fr.) Th. Fr. Three fertile specimens belong here. Two were labelled "*paschale*," one as above.
69. *Stereocaulon tomentosum* var. *alpinum* Th. Fr. Two fertile specimens belong here. Both were labelled "*coralloides*."
70. *Stereocaulon denudatum* Floerk. Two specimens, one fertile, belong here. One from "Monadnoc" was labelled "*tomentosum* var. *alpinum*," the other collected by "C. C. Frost," and probably therefore not from New Hampshire, was labelled "*pileatum*."
71. *Stereocaulon condensatum* Hoffm. One fertile unlabelled specimen collected on "earth" belongs here.
72. *Stereocaulon pileatum* Ash. One specimen labelled "nanodes Keene, rare" probably belongs here. Fitzwilliam, common. One specimen labelled "*Stereocaulon nanodes?* Keene," is "not determinable, but certainly [is] not *S. nanodes*."

For the determination of the specimens of this genus I am indebted to Dr. L. W. Riddle of Wellesley College.

Genus: *Cladonia*.

The genus *Cladonia* has undergone such revision since Mr. Wheelock's day, that I have not indicated his determinations in this genus. For the determination of these plants, except where otherwise indicated, I am indebted to Dr. L. Scriba of Frankfort, Germany, who for the mere painstaking clerical labor alone, is to be admired. The arrangement of the species,

so far as possible, is according to Tuckerman as in the former papers. It must be borne in mind that though these lichens were included in Mr. Wheelock's New Hampshire collection, yet undoubtedly a number of species were inadvertently included, and are not to be attributed to this region.

73. *Cladonia cariosa* (Ach.) Spreng. Five specimens.
74. *Cladonia cariosa corticata* Wain. (= *symphyrcarpia* Fr.). One specimen.
75. *Cladonia pyxidata chlorophaea* Flk. Three specimens.
76. *Cladonia pyxidata neglecta* Flk. Four specimens.
- (?) *Cladonia fimbriata* (L.) Fr. One doubtful specimen.
- (?) *Cladonia fimbriata pycnothetira* Nyl. One doubtful specimen.
77. *Cladonia ochrochlora* Flk. Ten specimens, six of which are doubtfully referred here.
78. *Cladonia pityrea* (Flk.) Fr. Eleven specimens.
79. *Cladonia pityrea crassiuscula* Wain. Two specimens.
80. *Cladonia acuminata* (Ach.) Norrl. One specimen.
81. *Cladonia gracilis dilatata* Wain. One specimen.
82. *Cladonia gracilis macroceras* (a. *elongata*) Wain. Four specimens.
83. *Cladonia verticillata* Hoffm. Five specimens.
84. *Cladonia turgida* (Ehrh.) Hoffm. Eight specimens.
- 84½. *Cladonia Papillaria* (Ehrh.) Hoffm. (Mt. Monadnock. Nov. 2, 1907).
85. *Cladonia squamosa* (Scop.) Hoffm. One specimen.
86. *Cladonia squamosa denticollis* Wain. One specimen.
87. *Cladonia squamosa multibrachiata* Wain. Four specimens.
88. *Cladonia squamosa phyllocoma* Wain. Five specimens, three doubtfully referred.
89. *Cladonia squamosa murina* Scr. One specimen.
90. *Cladonia subsquamosa* Nyl. (emend). One specimen.
91. *Cladonia delicata* (Ehrh.) Flk. Two specimens.
92. *Cladonia caespiticia* (Pers.) Flk. Five specimens, three were determined by Dr. L. W. Riddle.
93. *Cladonia furcata* (Huds.) Schrad. Two specimens.
94. *Cladonia furcata paradoxa* Wain. Eleven specimens.
95. *Cladonia furcata pinnata* Wain. Six specimens. (Fitzwilliam, common.)
96. *Cladonia furcata scabriuscula* (Del.) Wain. Seven specimens.
97. *Cladonia furcata polamaeam* Wain. Six specimens.
98. *Cladonia furcata racemosa* Wain. Three specimens.
99. *Cladonia furcata racemosa* (f. *corymbosa*) Wain. Two specimens. (Fitzwilliam, common.)
100. *Cladonia furcata glaucoides* Scr. Two specimens. (Fitzwilliam, common.)
101. *Cladonia furcata truncatum* Flk. One specimen.
102. *Cladonia furcata furcata-subulata* Wain. One specimen.
103. *Cladonia rangiferina* (L.) Web. (emend). Three specimens. (Fitzwilliam, common.)

104. *Cladonia sylvatica* (L.) Hoffm. Two specimens. (Fitzwilliam, common.)
105. *Cladonia alpestris* (L.) Rabenb. Two specimens. (Fitzwilliam, common.)
106. *Cladonia Floerkeana* (Fr.) Sommf. One specimen.
107. *Cladonia Floerkeana intermedia* Hepp. One specimen.
108. *Cladonia amaurocraea* (Flk.) Schaer. One specimen.
109. *Cladonia uncialis* (L.) Web. Hoffm. Six specimens.
110. *Cladonia uncialis obtusata* Ach. Three specimens.
111. *Cladonia reticulata lacunosa* (Bor.) Wain. Four specimens.
112. (?) *Cladonia coccifera* (L.) Willd. One doubtful specimen.
113. *Cladonia coccifera pleurota* Flk. Three specimens. (Fitzwilliam, common.)
114. *Cladonia coccifera stematina* Wain. Two specimens.
115. *Cladonia digitata* Schaer. One specimen.
116. *Cladonia digitata monstrosa* Wain. Four specimens.
117. *Cladonia didyma pygmaea* Wain. Four specimens.
118. *Cladonia bacillaris* Nyl. Four specimens.
119. *Cladonia macilenta* (Ehrh.) Hoffm. Two specimens, one doubtful, determination by Dr. L. W. Riddle.
120. *Cladonia cristatella* Tuck. Seven specimens. (Fitzwilliam, common.)
121. *Cladonia cristatella ochrocarpia* Tuck. Five specimens.
122. *Cladonia cristatella vestita* Tuck. One specimen.

There were three specimens returned by Dr. Scriba as indeterminable.
Concord, Mass.

TO BE CONTINUED.

FIELD NOTES ON EPHEMERUM AND NANOMITRIUM.

GEORGE E. NICHOLS.

The writer is about to undertake a study of the North American species of *Ephemerum* and *Nanomitrium*—our only representatives of the group known as the *Ephemereae*—and for this purpose desires to obtain specimens from all parts of the country. These two genera include some of the smallest known mosses, and it is perhaps not to be wondered at that they are not overabundantly represented in herbaria. The paucity of available material is not, however, due to the scarcity of the plants, for almost without doubt one or more species may be found in any region of temperate or tropical America where there are appropriate habitats. The writer rarely takes a day's tramp in the fall without discovering one or more new stations. It is with a view to introducing these tiny plants to those moss students who are not already personally acquainted with them, and of thus obtaining more extensive material upon which to work, that the writer ventures the following brief remarks relative to their habit and field characters, time of fruiting, habitat, and range.

HABITAT AND FIELD CHARACTERS. As already intimated, all of the species of *Ephemerum* and *Nanomitrium* are very minute. The leafy shoot